

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: CORELITE

Report Number: P562574

Luminaire Tested: **SQ4-PC3-025U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562574
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-025U-100D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

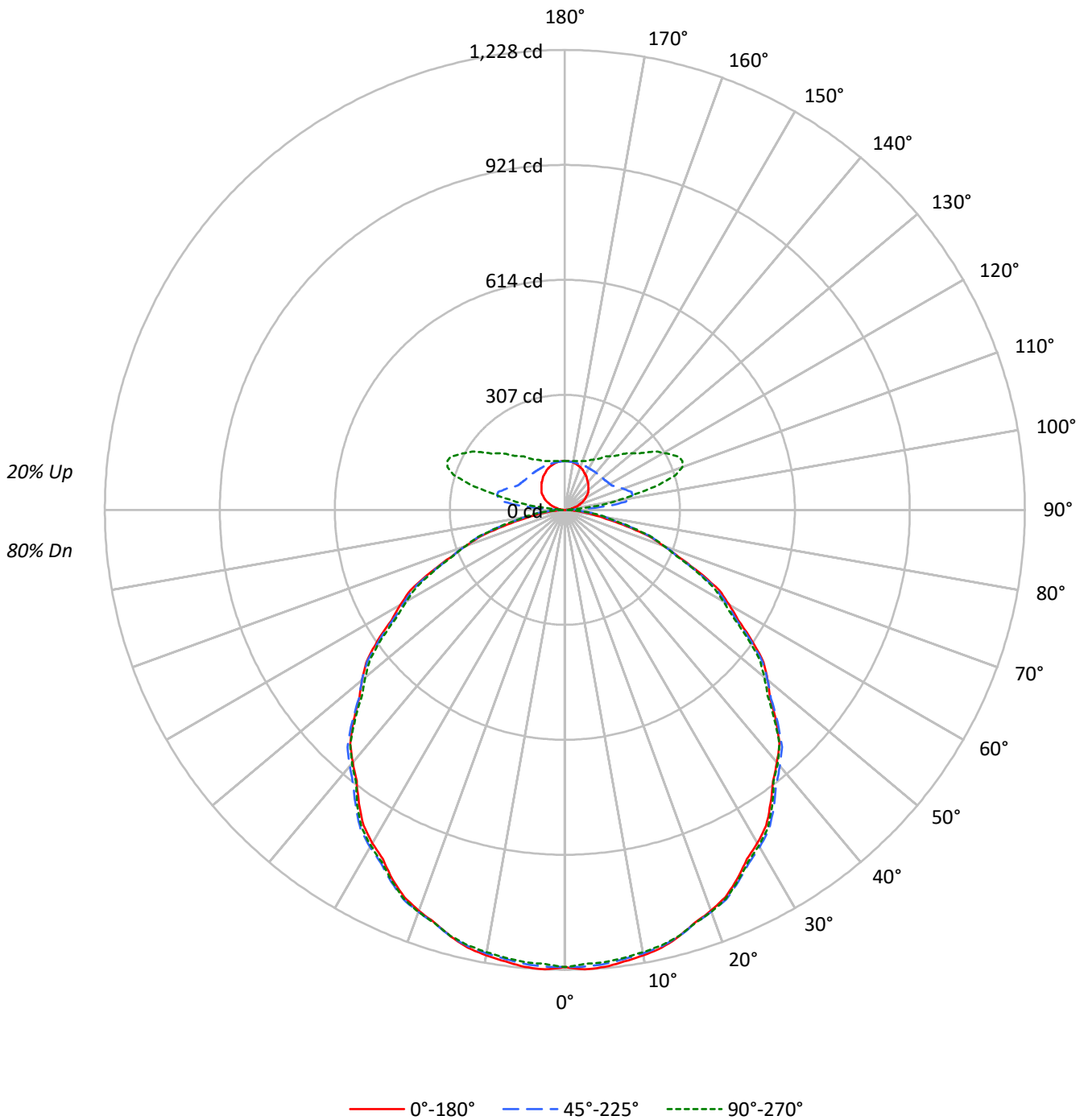
Lumens per Lamp: N/A
Luminaire Lumens: 4175.8 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80				
1	105	100	96	92	100	96	92	89	88	85	83	81	79	76	74	72	71	67				
2	95	87	81	76	91	84	78	73	77	72	68	71	67	64	65	62	60	57				
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48				
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41				
5	73	61	52	46	70	59	51	45	54	48	42	50	45	40	46	42	38	35				
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	33	31				
7	63	50	41	35	60	48	40	34	44	38	33	41	36	31	38	33	30	27				
8	58	45	37	31	55	44	36	31	41	34	29	38	32	28	35	30	27	25				
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22				
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11263	11263	11263
5°	11348	11275	11232
10°	11320	11268	11236
15°	11260	11260	11250
20°	11187	11220	11220
25°	11081	11161	11127
30°	10946	11079	11031
35°	10783	10949	10872
40°	10605	10755	10646
45°	10412	10487	10323
50°	10141	10141	9978
55°	9819	9691	9545
60°	9344	9156	9010
65°	8636	8464	8390
70°	7561	7623	7594
75°	6085	6730	6769
80°	4325	5706	5765
85°	2636	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	2.8
10°-20°	331.5	7.9
20°-30°	502.1	12.0
30°-40°	601.9	14.4
40°-50°	613.7	14.7
50°-60°	535.8	12.8
60°-70°	383.6	9.2
70°-80°	197.6	4.7
80°-90°	50.7	1.2
90°-100°	63.4	1.5
100°-110°	166.7	4.0
110°-120°	172.9	4.1
120°-130°	138.7	3.3
130°-140°	108.8	2.6
140°-150°	83.5	2.0
150°-160°	60.2	1.4
160°-170°	36.8	0.9
170°-180°	12.4	0.3
0°-30°	949.2	22.7
0°-40°	1551.1	37.1
0°-60°	2700.6	64.7
0°-90°	3332.4	79.8
90°-120°	403.0	9.7
90°-150°	734.0	17.6
90°-180°	843.0	20.2
0°-180°	4175.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1225	1213	1217	1214	1213	116
15°	1179	1169	1179	1179	1178	332
25°	1088	1081	1096	1093	1093	501
35°	957	955	972	965	965	599
45°	798	796	804	793	791	614
55°	610	603	602	593	593	544
65°	396	387	388	384	384	391
75°	171	178	189	190	190	184
85°	25	38	45	46	45	34
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1228.0	1217.4	1220.8	1217.9	1213.5
5°	1225.3	1213.1	1217.4	1214.0	1212.8
7.5°	1216.5	1204.3	1209.9	1207.6	1206.5
10°	1208.3	1196.2	1202.7	1200.4	1199.3
12.5°	1197.5	1186.2	1193.6	1191.4	1191.1
15°	1178.9	1169.0	1178.9	1178.9	1177.8
17.5°	1155.7	1146.6	1157.2	1157.9	1157.2
20°	1139.4	1129.4	1142.8	1141.7	1142.8
22.5°	1119.5	1111.3	1125.6	1122.7	1123.8
25°	1088.5	1080.8	1096.4	1093.0	1093.0
27.5°	1051.9	1046.4	1063.4	1059.8	1059.8
30°	1027.5	1021.9	1039.9	1035.4	1035.4
32.5°	1000.3	996.6	1013.7	1008.3	1008.3
35°	957.4	955.2	972.1	965.3	965.3
37.5°	913.1	911.1	926.4	918.2	915.6
40°	880.5	879.4	893.0	883.9	883.9
42.5°	848.0	846.9	858.6	847.7	847.7
45°	798.0	795.8	803.7	793.4	791.2
47.5°	743.5	741.3	746.2	735.1	734.0
50°	706.5	704.2	706.5	696.3	695.2
52.5°	668.5	664.5	664.9	654.7	654.5
55°	610.4	602.6	602.5	593.4	593.4
57.5°	548.9	538.7	539.6	531.9	530.8
60°	506.4	495.3	496.2	489.4	488.3
62.5°	464.8	452.0	454.6	446.9	446.7
65°	395.6	386.8	387.7	384.3	384.3
67.5°	329.2	321.0	326.9	324.2	324.0
70°	280.3	274.8	282.6	282.6	281.5
72.5°	235.1	234.9	244.6	244.6	245.3
75°	170.7	178.4	188.8	189.9	189.9
77.5°	113.9	127.6	139.0	139.5	139.3
80°	81.4	96.9	107.4	109.6	108.5
82.5°	55.2	71.5	80.3	82.5	81.4
85°	24.9	38.1	45.2	46.3	45.2
87.5°	7.4	15.7	19.4	18.7	16.9
90°	0.8	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.4
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.8	180.2	182.6	141.8
102.5°	23.2	41.5	184.8	227.4	192.5
105°	30.0	45.5	184.3	279.8	261.1
107.5°	37.0	51.4	173.8	307.1	311.6
110°	41.7	54.8	165.2	314.1	333.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)